PowerLogic power-monitoring units

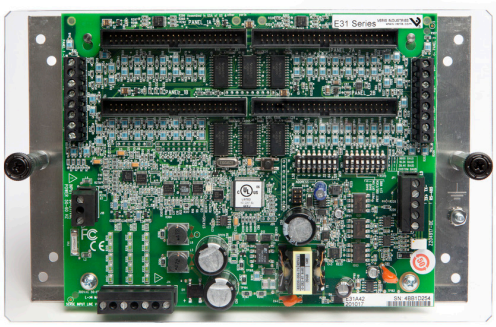
Branch Circuit Power Meter (BCPM)

Technical data sheet

Schneider Electric

PowerLogic BCPM
Functions and characteristics

PE86281



PowerLogic™ BCPM A/B/C main board

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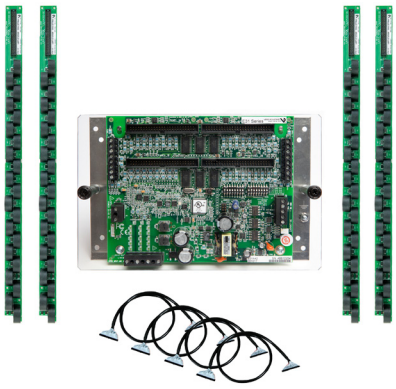

PowerLogic™ BCPME Measurement Unit"

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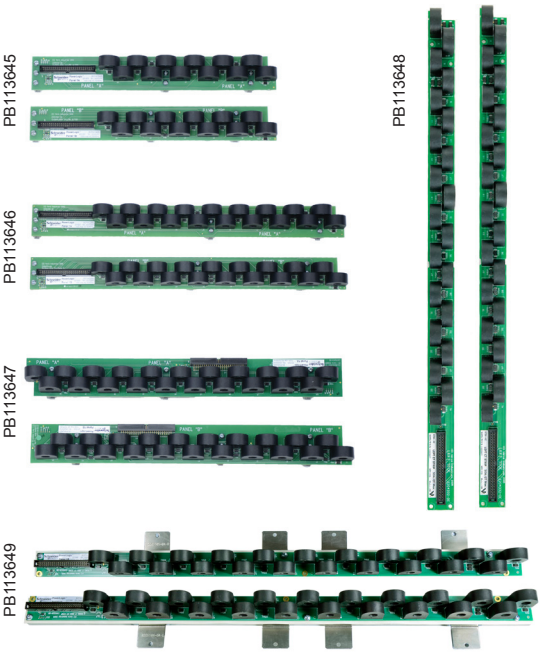

PowerLogic™ BCPM split core 12mm, 18mm, 21mm, .75 in and 1 in CTs strips

The ideal solution for data centre managers, energy or facility managers, engineers and operational executives who are responsible for delivering power to critical applications. In corporate and hosted data centre facilities, this technology helps you plan and optimise the critical power infrastructure to meet the demands of continuous availability.

The PowerLogic BCPM is a highly accurate, full-featured metering product designed for the unique, multi-circuit and minimal space requirements of a high performance power distribution unit (PDU) or remote power panel (RPP). It offers class 1 (1%) power and energy system accuracy (including 50A or 100A CTs) on all branch channels.

The BCPM monitors up to 84 branch circuits with a single device and also monitors the incoming power mains to provide information on a complete PDU. It also offers multi-phase measurement totals with flexible support for any configuration of multi-phase breakers. Full alarming capabilities ensure that potential issues are dealt with before they become problems.

Unlike products designed for specific hardware, the flexible BCPM will fit any PDU or RPP design and supports both new and retrofit installations. It has exceptional dynamic range and accuracy, and optional feature sets to meet the energy challenges of mission critical data centres.

Applications

Revenue Grade sub-billing.
Data Centre load monitoring and alarming
Comprehensive monitoring of lighting control panels
Maximise uptime and avoid outages.
Optimise existing infrastructure.
Effectively plan future infrastructure needs.
Improve power distribution efficiency.
Track usage and allocate energy costs.

Main characteristics

Monitor up to 84 branch circuits with a single BCPM.

Ideal for installation in both new PDUs and retrofit projects:

■ New installations: BCPM with solid core CTs monitors up to 84 branch circuits using 2 or 4 CT strips. Solid core CTs are rated to 100 A CTs and are mounted on strips to simplify installation. CT strips are available with 12, 8 or 21 CTs per strip on 18 mm spacings. 21 CT strips with 3/4" or 1" spacings are also available.

■ Retrofit projects: BCPMSC with split core CTs is ideal for retrofits. Any number of split core CTs, up to 84 maximum, can be installed with a single BCPM. Three sizes of CT are supported (50 A, 100 A, and 200 A) and all three CT sizes can be used on a single BCPM. Adapter boards with terminals for split-core CTs can be mounted using DIN-rail, Snaptrack or on a common mounting plate with the main board (42 ch Y63 models only).

Class 1.0 system accuracy for Revenue Grade measurements
Branch Power and Energy measurements fully meet ANSI and IEC class 1 accuracy requirements with 50 or 100 Amp CTs included. No need to de-rate meter branch accuracy to allow for CTs. Voltage and current measurement accuracy is 0.5% and currents are measured down to 50mA. Easily differentiate between the flow of low current and a trip where no current flows.

Designed to fit any PDU or RPP design
Lowers your total installation costs as well as the cost per meter point by supporting both new and retrofit installations.

New models with integrated Ethernet offer broad protocol support
All models integrate easily into existing networks using Modbus RTU communications over an RS-485 serial link. BCPME and BCPMSCE models offer integrated Ethernet and add support for Modbus TCP, BACnet IP, BACnet MS/TP and SNMP. An optional external gateway can be added to all other models to add the same capability.

Compatible with PowerLogic power monitoring software
Easily turn the large amount of data collected by the devices into useful decision-making information.

Flexible Configuration capability
Set the ordering and orientation of CT strips, assign individual CT size and phases, support for 1, 2, and 3-pole breakers in any configuration.

PowerLogic BCPM
Functions and characteristics (cont.)

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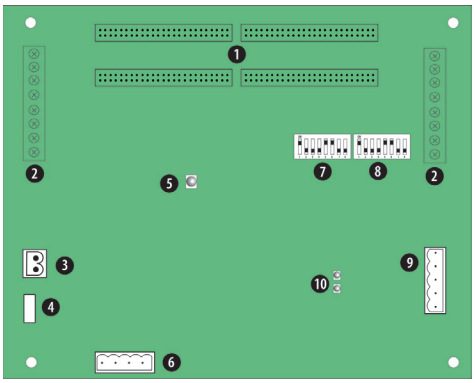

PowerLogic BCPM
1 *50-pin ribbon cable connectors (data acquisition board).*
2 *Auxiliary inputs.*
3 *Control (mains) power connection.*
4 *Control power fuse.*
5 *Alive LED.*
6 *Voltage taps.*
7 *Communications address DIP switches.*
8 *Communications settings DIP switch.*
9 *RS-485 2 connection.*
10 *RS-485 LEDs.*

Selection guide		BCPMA	BCPMB	BCPMC	BCPME
General					
Use on LV systems		■	■	■	■
Power and energy measurements					
Mains		■	■	-	■
Branch circuits		■	-	-	■
Instantaneous rms values					
Voltage, frequency		■	■	-	■
Current		■	■	■	■
Active power	Total and per phase	■	■ (mains only)	-	■
Power factor	Total and per phase	■	■ (mains only)	-	■
Energy values					
Active energy		■	■ (mains only)	-	■
Demand values					
Total active power	Present and max. values	■	■ (mains only)	-	■
Power quality measurements					
Detection of over-voltage/under-voltage		■	■	-	■
Alarming					
Alarms		■	■	■	■
Power supply					
AC version		90-277 V ac	90-277 V ac	90-277 V ac	100-277 V ac
Communication					
RS 485 port		■	■	■	■
Modbus protocol		■	■	■	■
Ethernet Port		1*	1*	1*	■
Modbus RTU protocol		1*	1*	1*	■
BACnet IP protocol		1*	1*	1*	■
BACnet MS/TP protocol		1*	1*	1*	■
SNMP protocol		1*	1*	1*	■

PowerLogic BCPM specifications		
Electrical characteristics		
Type of measurement		
Accuracy	Power/energy	1% system accuracy (including 50A or 100A branch CTs)
	Voltage	±0.5% of reading
	Current	±0.5% of reading
	Minimum “ON” current	50mA
Sampling rate Points per cycle		2560 Hz
Data update rate		1.8 seconds (Modbus), 14 seconds (BACnet) 20 sec (SNMP)
Input-voltage characteristics	Measured voltage	150 – 480 V ac L-L (1) 90 – 277 V ac L-N (1)
	Measurement range	150 – 480 V ac L-L (1) 90 – 277 V ac L-N (1)
Power supply	AC	100 – 277 V ac (50/60 Hz)
Auxiliary CT Current Input Range		0-0.333V; CTs must be rated for use with Class 1 voltage inputs
Mechanical characteristics		
Weight		1.5 kg
Dimensions	A/B/C model Circuit board	288 x 146 mm
	E model housing (w/ brackets on long sides)	253 mm W x 307 mm H x 71 mm D
	E model housing (w/ brackets on short ends)	210 mm W x 353 mm H x 71 mm D

*1 Add E8951 Gateway

PowerLogic BCPM
Functions and characteristics (cont.)

PowerLogic BCPM specifications (cont'd)	
Environmental conditions	
Operating temperature	0 to 60ºC
Storage temperature	-40ºC to 70ºC
Installation category	CAT III, pollution degree 2
Safety	
Europe	IEC 61010
U.S. and Canada	UL 508 Open type device
Communication	
RS 485 (A/B/C models)	Baud rate: DIP-switch selectable 9600, 19200, 38400 DIP-switch selectable 2-wire or 4-wire RS-485. Parity selectable: Even, Odd or None.
RS 485 (E Models)	Baud rate: configured via Web-server. Baud selectable: 9600, 19200, 38400. Parity selectable: Even, Odd or None. 2-wire RS-485.
Ethernet (E models)	10/100 Mbit Ethernet. RJ-45 connection. Static IP or DHCP.
Protocols	Modbus RTU on all models, BCPME models also support Modbus TCP, SNMP, BACnet IP & BACnet MS/TP
Firmware characteristics	
Detection of over-voltage/ under-voltage	User-defined alarm thresholds for over-voltage and under-voltage detection
Alarms	Four alarm levels: high-high, high, low and low-low (users define the setpoints for each). Each alarm has a latching status to alert the operator that an alarm has previously occurred. High and Low alarms have instantaneous status to let the operator know if the alarm state is still occurring.
Firmware update	Update via Modbus

(1) Feature sets 'A', 'B' and 'E only.

1/3 V low-voltage CT (LVCT) for Mains - specifications	
Electrical characteristics	
Accuracy	1% from 10% to 100% of rated current(LVCT0xxxx0S/1S/2S/3S/4S [split-core]) 0.5% from 5% to 100% of rated current (LVCT2xxxx0S/2S/3S [solid-core])
Frequency range	50/60 Hz
Leads	18 AWG, 600 V ac, 1.8m standard length
Max. voltage L-N sensed conductor	300 V ac (LVCT0xxxx0S) 600 V ac (LVCT0xxxx1S/2S/3S/4S, LVCT2xxxxS)
Environmental conditions	
Operating temperature	0ºC to 70ºC (LVCT0xxxx0S/1S) -15ºC to 60ºC (LVCT0xxxx2S/3S/4S less than 2400A) -15ºC to 60ºC (LVCT02404S [2400A]) -40ºC to 85ºC (LVCT2xxxx0S/2S/3S [solid-core])
Storage temperature	-40ºC to 105ºC (LVCT0xxxx0S/1S) -40ºC to 70ºC (LVCT0xxxx2S/3S/4S) -50ºC to 105ºC (LVCT2xxxx0S/2S/3S [solid-core])
Humidity range	0 to 95% non-condensing

PowerLogic BCPM
Functions and characteristics (cont.)

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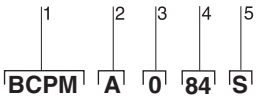

Example BCPM with solid core CTs part number.

1 *Model.*
2 *Feature set.*
3 *CT spacing (solid-core models only)*
4 *Number of circuits.*
5 *Brand.*

The PowerLogic BCPM uses .333 VAC output split-core CTs for the auxiliary inputs. These CTs are ordered separately from the BCPM.

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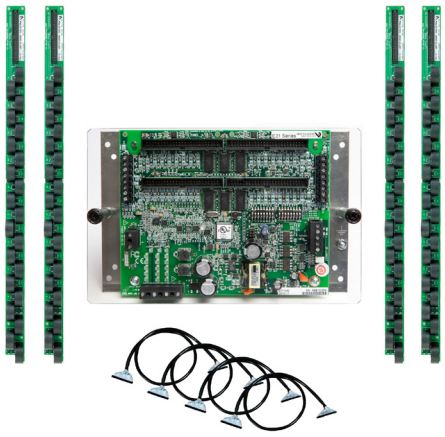

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* Quantity and style of CT strips and cables included varies by model

BCPM part numbers

BCPM with solid core CTs

	Item	Code	Description
1	Model	BCPM	BCPM with solid core CTs. Highly accurate meter that monitors branch circuits and the incoming power mains and includes full alarming capabilities
2	Feature set	A	Advanced - Monitors power & energy per circuit & mains, Modbus RTU only (add E8951 for other protocols), Meter Main Board comes on an aluminum mounting plate
		B	Intermediate - Monitors current per circuit, power and energy per mains, Modbus RTU only (add E8951 for other protocols), Meter Main Board comes on an aluminum mounting plate
		C	Basic - Monitors current only per circuit & mains, Modbus RTU only (add E8951 for other protocols), Meter Main Board comes on an aluminum mounting plate
		E	Advanced, with Ethernet - Monitors power & energy per circuit & mains, Meter Main Board is enclosed in a metal housing
3	CT spacing	0	3/4" (19 mm) CT spacing
		1	1" (26 mm) CT spacing
		2	18 mm CT spacing
4	Number of circuits	24	24 circuits, (2) 18-CT strips (18 mm spacing only)
		36	36 circuits, (2) 18-CT strips (18 mm spacing only)
		42	42 circuits, (2) 21-CT strips
		48	48 circuits, (4) 18-CT strips (18 mm spacing only)
		72	72 circuits, (4) 18-CT strips (18 mm spacing only)
		84	84 circuits, (4) 21-CT strips
5	Brand	S	Schneider Electric

PowerLogic BCPM
Functions and characteristics (cont.)

PB113735

Example BCPMSC with split core CTs part number.

1 *Model.*
2 *Feature set.*
3 *Number of circuits.*
4 *Brand.*

The BCPMSC models with 1, 2 or Y63 as the number of circuits DO NOT INCLUDE ANY branch CTs or ribbon cables (they include only the Main board and adapater board assemblies) . These models are provided to allow users to order a specific combination of CT quantities, CT sizes, CT lead lengths and ribbon cable styles and lengths. The CTs and cables must be ordered separately.

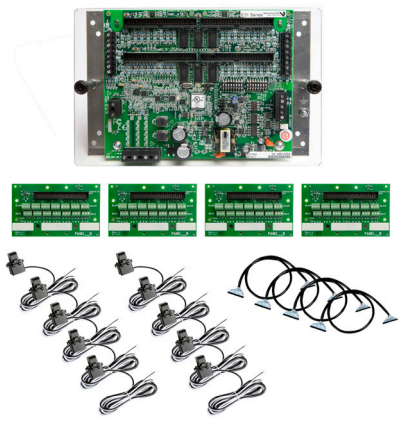
Models with more than 2 as the number of circuits include 50A branch CTs with 2 meter leads and 1.8M round ribbon cables.

The PowerLogic BCPMSC uses .333 VAC output split-core CTs for the auxiliary inputs. These CTs are ordered separately from the BCPM.

	BCPM with split core CTs		
	Model	BCPMSC	BCPM with split core CTs. Highly accurate meter that monitors branch circuits and the incoming power mains and includes full alarming capabilities
2	Feature set	A	Advanced - Monitors power and energy per circuit and mains, Modbus RTU only (add E8951 for other protocols), Meter Main Board comes on an aluminum mounting plate
		B	Intermediate - Monitors current per circuit, power and energy per mains, Modbus RTU only (add E8951 for other protocols), Meter Main Board comes on an aluminum mounting plate
		C	Basic - Monitors current only per circuit and mains, Modbus RTU only (add E8951 for other protocols), Meter Main Board comes on an aluminum mounting plate
		E	Advanced, with Ethernet - Monitors power & energy per circuit & mains, Meter Main Board is enclosed in a metal housing
4	Number of circuits	1	42 circuits (no branch CTs or ribbon cables, order separately)
		2	84 circuits (no branch CTs or ribbon cables, order separately)
		Y63	42 circuits – main and adapter boards on single mounting plate (no branch CTs or ribbon, order separately)
		30	30 split core CTs (50 A)
		42	42 split core CTs (50 A)
		60	60 split core CTs (50 A)
		84	84 split core CTs (50 A)
5	Brand	S	Schneider Electric

PB113666

PB113730



* Quantity of CT and cables included varies by model

PowerLogic BCPM
Functions and characteristics (cont.)

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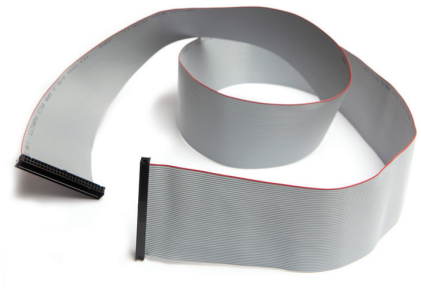

Flat ribbon cable

PB113650

Round ribbon cable

Cabling and connection

Flat ribbon cables are recommended for use when the BCPM printed circuit board will be mounted inside of the PDU that is being monitored. Round ribbon cables are the prefered choice when the ribbon cable will be threaded through conduit.

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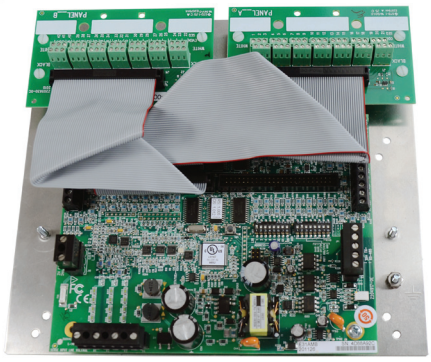


BCPMSCxY63S 42-circuit split-core models come with the main board, (2) adapter boards and ribbon cables all mounted on a backplate, to simplify installation.

BCPM part numbers for solid and split core CTs (contd.)

BCPM with split core CTs

Part number	Description
BCPMA042S	42-circuit solid-core power & energy meter, 100A CTs (2 strips), ¾" spacing
BCPMA084S	84-circuit solid-core power & energy meter, 100A CTs (4 strips), ¾"spacing
BCPMA142S	42-circuit solid-core power & energy meter, 100A CTs (2 strips), 1" spacing
BCPMA184S	84-circuit solid-core power & energy meter, 100A CTs (4 strips), 1" mm spacing
BCPMA224S	24-circuit solid-core power & energy meter, 100A CTs (2 strips), 18mm spacing
BCPMA236S	36-circuit solid-core power & energy meter, 100A CTs (2 strips), 18mm spacing
BCPMA242S	42-circuit solid-core power & energy meter, 100A CTs (2 strips), 18mm spacing
BCPMA248S	48-circuit solid-core power & energy meter, 100A CTs (4 strips), 18mm spacing
BCPMA272S	72-circuit solid-core power & energy meter, 100A CTs (4 strips), 18mm spacing
BCPMA284S	84-circuit solid-core power & energy meter, 100A CTs (4 strips), 18mm spacing
BCPMB042S	42-circuit solid-core branch current, mains power meter, 100A CTs (2 strips), ¾" spacing
BCPMB084S	84-circuit solid-core branch current, mains power meter, 100A CTs (4 strips), ¾" spacing
BCPMB142S	42-circuit solid-core branch current, mains power meter, 100A CTs (2 strips), 1" spacing
BCPMB184S	84-circuit solid-core branch current, mains power meter, 100A CTs (4 strips), 1" spacing
BCPMB224S	24-circuit solid-core branch current, mains power meter, 100A CTs (2 strips), 18mm spacing
BCPMB236S	36-circuit solid-core branch current, mains power meter, 100A CTs (2 strips), 18mm spacing
BCPMB242S	42-circuit solid-core branch current, mains power meter, 100A CTs (2 strips), 18mm spacing
BCPMB248S	48-circuit solid-core branch current, mains power meter, 100A CTs (4 strips), 18mm spacing
BCPMB272S	72-circuit solid-core branch current, mains power meter, 100A CTs (4 strips), 18mm spacing
BCPMB284S	84-circuit solid-core branch current, mains power meter, 100A CTs (4 strips), 18mm spacing
BCPMC042S	42-circuit solid-core branch current meter, 100A CTs (2 strips), ¾" spacing
BCPMC084S	84-circuit solid-core branch current meter, 100A CTs (4 strips), ¾" spacing
BCPMC142S	42-circuit solid-core branch current meter, 100A CTs (2 strips), 1" spacing
BCPMC184S	84-circuit solid-core branch current meter, 100A CTs (4 strips), 1" spacing
BCPMC224S	24-circuit solid-core branch current meter, 100A CTs (2 strips), 18mm spacing
BCPMC236S	36-circuit solid-core branch current meter, 100A CTs (2 strips), 18mm spacing
BCPMC242S	42-circuit solid-core branch current meter, 100A CTs (2 strips), 18mm spacing
BCPMC248S	48-circuit solid-core branch current meter, 100A CTs (4 strips), 18mm spacing
BCPMC272S	72-circuit solid-core branch current meter, 100A CTs (4 strips), 18mm spacing
BCPMC284S	84-circuit solid-core branch current meter, 100A CTs (4 strips), 18mm spacing
BCPME042S	42-circuit solid-core power & energy meter w/Ethernet, 100A CTs (2 strips), ¾" spacing
BCPME084S	84-circuit solid-core power & energy meter w/Ethernet, 100A CTs (4 strips), ¾"spacing
BCPME142S	42-circuit solid-core power & energy meter w/Ethernet, 100A CTs (2 strips), 1" spacing
BCPME184S	84-circuit solid-core power & energy meter w/Ethernet, 100A CTs (4 strips), 1" mm spacing
BCPME224S	24-circuit solid-core power & energy meter w/Ethernet, 100A CTs (2 strips), 18mm spacing
BCPME236S	36-circuit solid-core power & energy meter w/Ethernet, 100A CTs (2 strips), 18mm spacing
BCPME242S	42-circuit solid-core power & energy meter w/Ethernet, 100A CTs (2 strips), 18mm spacing
BCPME248S	48-circuit solid-core power & energy meter w/Ethernet, 100A CTs (4 strips), 18mm spacing
BCPME272S	72-circuit solid-core power & energy meter w/Ethernet, 100A CTs (4 strips), 18mm spacing
BCPME284S	84-circuit solid-core power & energy meter w/Ethernet, 100A CTs (4 strips), 18mm spacing

PowerLogic BCPM
Functions and characteristics (cont.)

PE86183

PowerLogic™ LVCT0xxxxS Split-core Low-voltage (1/3V) CTs for Aux inputs (Mains) are ideal for retrofit applications

PB113652
PB113657
PB113658

PowerLogic™ LVCT2xxxxS Low-voltage (1/3V) solid-core CTs for Aux inputs (Mains) are ideal for panel builders (small, medium, large)

The PowerLogic™ BCPM uses .333 VAC output split-core CTs for the auxiliary inputs. These CTs are ordered separately from the BCPM.

BCPM with split core CTs (cont'd)	
BCPMSCA1S	42-circuit split-core power and energy meter, CTs and cables sold separately
BCPMSCA2S	84-circuit split-core power and energy meter, CTs and cables sold separately
BCPMSCA30S	30-circuit split-core power and energy meter, (30) 50A CTs & (2) 4' cables
BCPMSCA42S	42-circuit split-core power and energy meter, (42) 50A CTs & (2) 4' cables
BCPMSCA60S	60-circuit split-core power and energy meter, (60) 50A CTs & (4) 4' cables
BCPMSCAY63S	42-circuit split core power and energy meter, all boards on backplate, CTs and cables sold separately
BCPMSCA84S	84-circuit split-core power and energy meter, with (84) 50A CTs & (4) 4' cables
BCPMSCB1S	42-circuit split-core branch current, mains power meter, CTs and cables sold separately
BCPMSCB2S	84-circuit split-core branch current, mains power meter, CTs and cables sold separately
BCPMSCB30S	30-circuit split-core branch current, mains power meter, (30) 50A CTs & (2) 4' cables
BCPMSCB42S	42-circuit split-core branch current, mains power meter, (42) 50A CTs & (2) 4' cables
BCPMSCB60S	60-circuit split-core branch current, mains power meter, (60) 50A CTs & (4) 4' cables
BCPMSCBY63S	42-circuit split-core branch current, mains, all boards on backplate, CTs and cables sold separately
BCPMSCB84S	84-circuit split-core branch current, mains power meter, (84) 50A CTs & (4) 4' cables
BCPMSCC1S	42-circuit split-core current meter, CTs and cables sold separately
BCPMSCC2S	84-circuit split-core current meter, CTs and cables sold separately
BCPMSCC30S	30-circuit split-core current meter, (30) 50A CTs & (2) 4' cables
BCPMSCC42S	42 circuit split-core current meter, (42) 50A CTs & (2) 4' cables
BCPMSCC60S	60-circuit split-core current meter, (60) 50A CTs & (4) 4' cables
BCPMSCCY63S	42-circuit split-core current meter, all boards on backplate, CTs and cables sold separately
BCPMSCC84S	84-circuit split-core current meter, (84) 50A CTs & (4) 4' cables
BCPMSCE1S	42-circuit split-core power and energy meter w/Ethernet, CTs and cables sold separately
BCPMSCE2S	84-circuit split-core power and energy meter w/Ethernet, CTs and cables sold separately
BCPMSCE30S	30-circuit split-core power and energy meter w/Ethernet, (30) 50A CTs & (2) 4'
BCPMSCE42S	42-circuit split-core power and energy meter w/Ethernet, (42) 50A CTs & (2) 4' cables
BCPMSCE60S	60-circuit split-core power and energy meter w/Ethernet, (60) 50A CTs & (4) 4' cables
BCPMSCE84S	84-circuit split-core power and energy meter w/Ethernet, (84) 50A CTs & (4) 4' cables

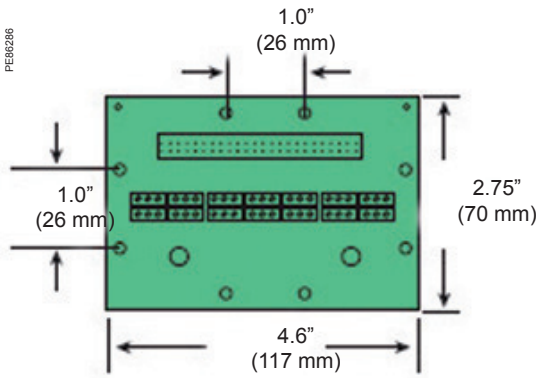
PowerLogic BCPM
Functions and characteristics (cont.)

BCPM split core branch CTs and adapter boards	
BCPMSCADPBS	BCPM adapter boards, quantity 2, for split core BCPM
BCPMSCCT0	BCPM 50A split core CTs, Quantity 6, 1.8 m lead lengths
BCPMSCCT0R20	BCPM 50A split core CTs, quantity 6, 6 m lead lengths
BCPMSCCT1	BCPM 100A split core CTs, Quantity 6, 1.8 m lead lengths
BCPMSCCT1R20	BCPM 100A split core CTs, Quantity 6, 6 m lead lengths
BCPMSCCT3	BCPM 200A split core CTs, Quantity 1, 1.8 m lead lengths
BCPMSCCT3R20	BCPM 200A split core CTs, Quantity 1, 6 m lead lengths
Additional accessories for use with BCPM products	
BCPMCOVERS	BCPM circuit board cover
BCPMREPAIR	CT repair kit for solid core BCPM (includes one CT)
H6803R-0100	Additional 100A split core CT for use with solid core repair kit
E8951	Modbus to BACnet protocol converter
CBL008	Flat Ribbon cable (quantity 1) for BCPM, length = 0.45 m
CBL016	Flat Ribbon cable (quantity 1) for BCPM, length = 1.2 m
CBL017	Flat Ribbon cable (quantity 1) for BCPM, length = 1.5 m
CBL018	Flat Ribbon cable (quantity 1) for BCPM, length = 1.8 m
CBL019	Flat Ribbon cable (quantity 1) for BCPM, length = 2.4 m
CBL020	Flat Ribbon cable (quantity 1) for BCPM, length = 3.0 m
CBL021	Flat Ribbon cable (quantity 1) for BCPM, length = 6.1 m
CBL022	Round Ribbon cable (quantity 1) for BCPM, length = 1.2 m
CBL023	Round Ribbon cable (quantity 1) for BCPM, length = 3 m
CBL024	Round Ribbon cable (quantity 1) for BCPM, length = 6.1 m
CBL031	Round Ribbon cable (quantity 1) for BCPM, length = 0.5 m
CBL033	Round Ribbon cable (quantity 1) for BCPM, length = 0.8 m

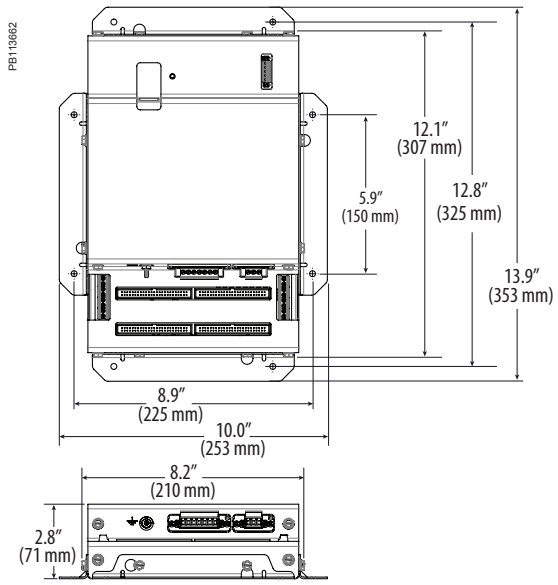
1/3 V low-voltage Split-Core CTs for Aux inputs (Mains)		
Part number	**Amperage rating**	**Inside dimensions**
LVCT00050S	50A	10 mm x 11 mm
LVCT00101S	200A	16 mm x 20 mm
LVCT00202S	200A	32 mm x 32 mm
LVCT00102S	100A	30 mm x 31 mm
LVCT00202S	200A	30 mm x 31 mm
LVCT00302S	300A	30 mm x 31 mm
LVCT00403S	400A	62 mm x 73 mm
LVCT00603S	600A	62 mm x 73 mm
LVCT00803S	800A	62 mm x 73 mm
LVCT00804S	800A	62 mm x 139 mm
LVCT01004S	1000A	62 mm x 139 mm
LVCT01204S	1200A	62 mm x 139 mm
LVCT01604S	1600A	62 mm x 139 mm
LVCT02004S	2000A	62 mm x 139 mm
LVCT02404S	2400A	62 mm x 139 mm

1/3 V low-voltage Solid core CTs for Aux inputs (Mains)		
Part number	**Amperage rating**	**Inside dimensions**
LVCT20050S	50A	10 mm
LVCT20100S	100A	10 mm
LVCT20202S	200A	25 mm
LVCT20403S	400A	31 mm

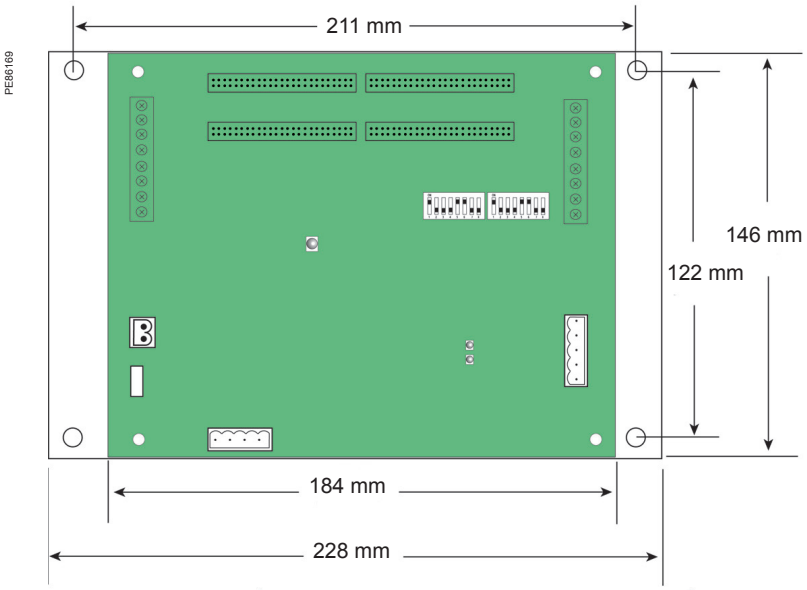
PowerLogic BCPM
Dimensions and connection

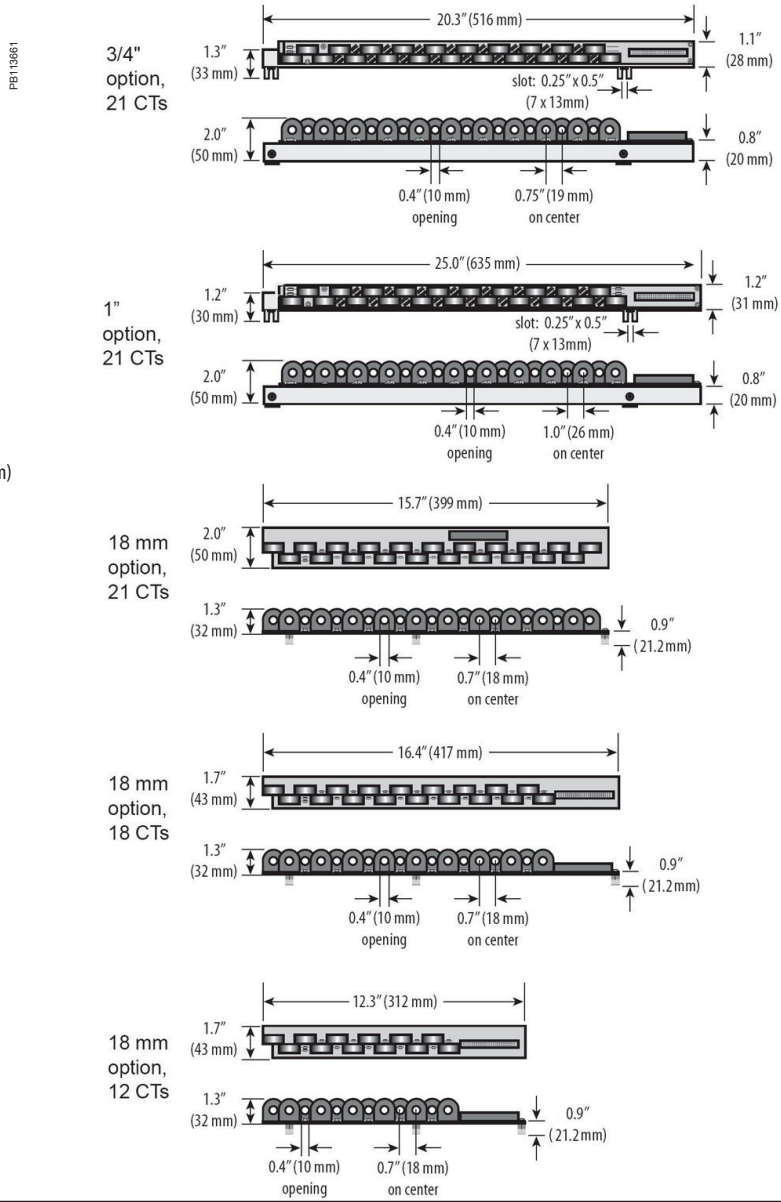


PowerLogic BCPM adapter board (one board per 21 split core branch CTs)



PowerLogic BCPM dimensions





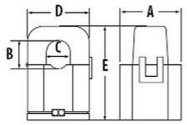
PowerLogic BCPM
Dimensions and connection

50A-200A Split-Core CT dimensions

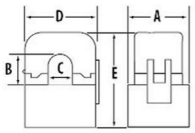
PB113659

These dimensions apply to both BCPMSCCTxx (branch CTs) and LVCT0xxxx0S/1S (for Mains) 50A-200A CT families.

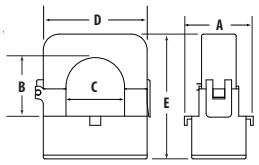
Split-Core CTs



50 Amp
A = 1.0″ (26 mm)
B = 0.5″ (11 mm)
C = 0.4″ (10 mm)
D = 0.9″ (23 mm)
E = 1.6″ (40 mm)



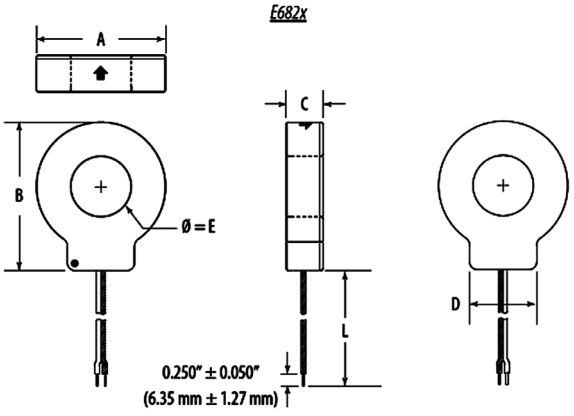
100 Amp
A = 1.2″ (29 mm)
B = 0.8″ (20 mm)
C = 0.7″ (16 mm)
D = 1.6″ (40 mm)
E = 2.1″ (53 mm)



200 Amp
A = 1.5″ (39 mm)
B = 1.25″ (32 mm)
C = 1.25″ (32 mm)
D = 2.5″ (64 mm)
E = 2.8″ (71 mm)

Solid core CT dimensions

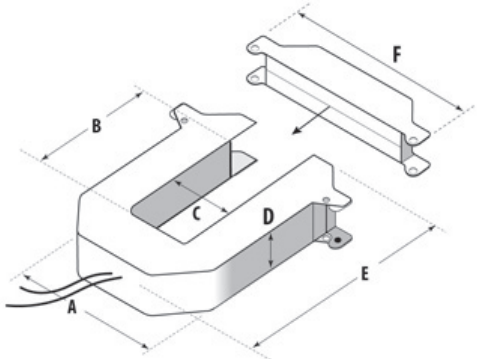
PB113660



Model	L	A	B	C	D	E
LVCT20050S LVCT20100S	6′(1.8 m)	1.3" (33 mm)	1.5" (38 mm)	0.7" (18 mm)	0.8" (21 mm)	0.4" (10 mm)
LVCT20202S	6′(1.8 m)	2.3" (59 mm)	2.6" (66 mm)	0.7" (18 mm)	1.2" (31 mm)	1.0" (25 mm)
LVCT20403S	6′(1.8 m)	2.8" (70 mm)	3.2" (82 mm)	1.0" (25 mm)	1.4" (36 mm)	1.25" (31 mm)

1/3 V low-voltage CT form factor

PB113663



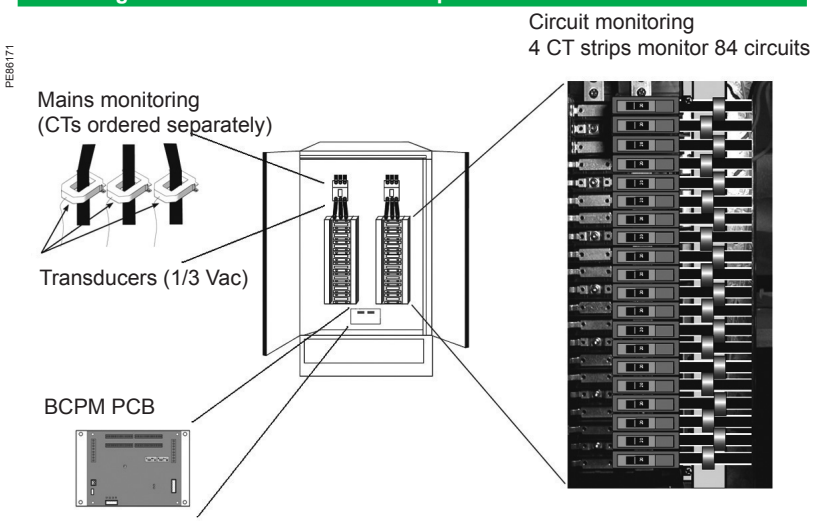
Small form factor
100/200/300 Amp
A = 96 mm
B = 30 mm
C = 31 mm
D = 30 mm
E = 100 mm
F = 121 mm

Medium form factor
400/600/800 Amp
A = 125 mm
B = 73 mm
C = 62 mm
D = 30 mm
E = 132 mm
F = 151 mm

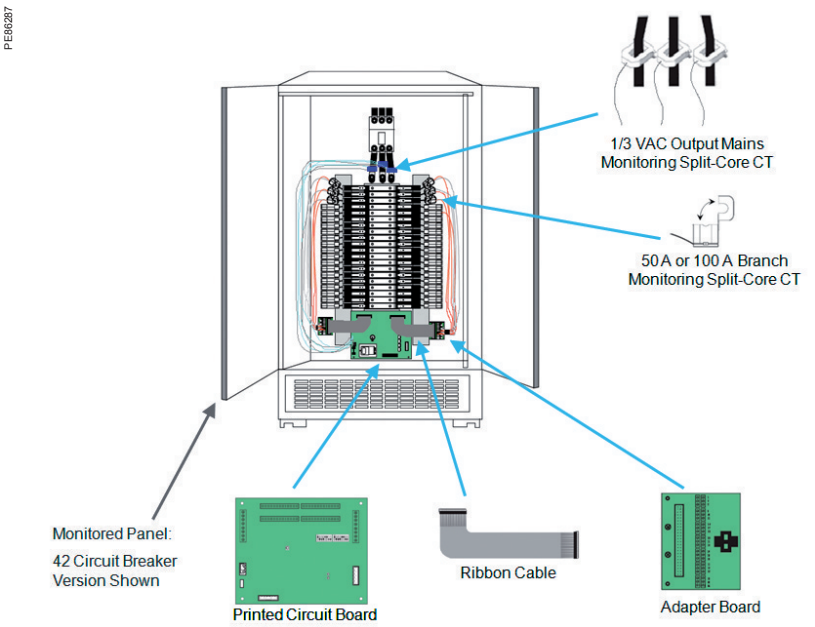
Large form factor
800/1000/1200/
1600/2000/2400 Amp
A = 125 mm
B = 139 mm
C = 62 mm
D = 30 mm
E = 201 mm
F = 151 mm

PowerLogic BCPM
Dimensions and connection

PowerLogic BCPM with solid core CT strips installation details



PowerLogic BCPM with split core CTs installation details



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